	National and State Resource Concerns and Quality Criteria					
Natural	Natural Description of National State Assessment Tools					
Resource	Concern	Quality	Quality	for		
Concern		Criteria	Criteria	Quality Criteria Evaluation		
	SOIL					

Soil Erosion - Sheet and Rill	Detachment and transport of soil particles caused by rainfall splash and runoff degrade soil quality.	Sheet and rill erosion does not exceed the Soil Loss Tolerance "T."	Same as National	•	Current erosion prediction tool
Soil Erosion - Wind	Detachment and transport of soil particles caused by wind degrade soil quality and/or damage plants.	Wind erosion does not exceed the Soil Loss Tolerance "T" or for plant damage, does not exceed Crop Damage Tolerances.	Same as National	•	Current erosion prediction tool
Soil Erosion - Ephemeral Gully	Small channels caused by surface water runoff degrade soil quality and tend to increase in size. On cropland, they can be obscured by heavy tillage.	Surface water runoff is controlled sufficiently to stabilize the small channels and prevent reoccurrence of new channels.	Same as National	•	Volume calculation
Soil Erosion - Classic Gully	Deep, permanent channels caused by the convergence of surface runoff degrade soil quality. They enlarge progressively by headcutting and lateral widening.	Surface water runoff is controlled sufficiently to stop progression of headcutting and widening.	Same as National	•	Volume calculation Aerial photo trend analysis
Soil Erosion - Streambank	Accelerated loss of streambank soils restricts land and water use and management.	Accelerated streambank soil loss does not exceed a level commensurate with upstream land use and normal geomorphological processes on site.	Assessment tool shows condition of stream is healthy or if offsite conditions cause the stream to be unhealthy, the landowner is not contributing to the problem.	•	Stream assessment tool, i.e., Stream Visual Assessment Protocol (SVAP), Proper Functioning Condition (PFC)

	National and State Resource Concerns and Quality Criteria					
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	SOIL					

Soil Erosion - Shoreline	Soil is eroded along shorelines by wind and wave action, causing physical damage to vegetation, limiting land use, or creating a safety hazard.	Shoreline erosion is stabilized to a level that does not restrict the use or management of adjacent land, water, or structures.	Shoreline erosion is stabilized to a level that does not restrict the use or management of adjacent land, water, or structures.	•	Visual Assessment Volume Calculations
Soil Erosion – Irrigation- induced	Improper irrigation water application and equipment operation are causing soil erosion that degrades soil quality.	Irrigation-induced erosion does not exceed the Soil Loss Tolerance "T."	Same as National	•	Surface Irrigation Model (SRFR) Furrow Irrigation (FUSED) Imhoff Cones
Soil Erosion - Mass Movement	Soil slippage, landslides, or slope failure, normally on hillsides, result in large volumes of soil movement	Shallow slumps, slides, or slips are prevented or minimized so that the mass movement of soil material does not exceed naturally occurring rates.	NA*		
Soil Erosion – Road, road sides and Construction Sites	Soil loss occurs on areas left unprotected during or after road building and/or construction activities.	Sites are adequately protected from soil loss during and after road building and construction activities.	NA*		
Soil Condition - Organic Matter Depletion	Soil organic matter has or will diminish to a level that degrades soil quality.	Soil Conditioning Index is positive.	The calculation of the Soil Condition Rating Index will be greater than 0	•	Soil Conditioning Index (SCI) Soil Tillage Intensity Rating (STIR)
Soil Condition - Compaction	Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships.	Mechanically compacted soils are renovated sufficiently to restore plant root growth and/or water movement.	Mechanically compacted soils are renovated sufficiently to restore plant root growth and/or water movement.	•	Bulk density test-Soil Quality Kit Visual Root Assessment

	National and State Resource Concerns and Quality Criteria					
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	SOIL					

Soil Condition - Subsidence	Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	The timing and regime of soil moisture is managed to attain acceptable subsidence rates.	NA*	
Soil Condition - Contaminants - Salts and Other Chemicals	Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity	Induced salinity levels cause less than a 10 percent decrease in plant yield. Other contaminants do not exceed plant tolerances or are below toxic levels for plants or animals.	Same as National	 Soil test Soil Quality Kit- EC meter Water Quality Test for Irrigated Induced Salinity – See SDSU- AES-13
Soil Condition - Contaminants - Animal Waste and Other Organics	Nutrient levels from applied animal waste and other organics restrict desired use of the land.	Nutrient application levels do not exceed soil storage/plant uptake capacities based on soil test recommendations and risk analysis results.	Same as National	 Soil test Nitrogen/Phosphorus Application Matrix Application records Yield records/history
Soil Condition – Contaminants - Commercial Fertilizer	Over application of nutrients degrades plant health and vigor, or exceeds the soil capacity to retain nutrients.	Soil nutrient levels do not exceed crop needs based on realistic yield goals and appropriate pH levels are maintained.	Same as National	 Soil Test Nitrogen/Phosphorus Application Matrix Application records Yield records/history
Soil Condition - Contaminants - Residual Pesticides	Residual pesticides in the soil have an adverse effect on non-target plants and animals.	Pesticides are applied, stored, handled, and disposed of so that residues in the soil do not adversely affect non-target plants and animals.	NA*	
Soil Condition - Damage from Soil Deposition	Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	Sediment deposition is sufficiently reduced to maintain desired land use/management and ecological processes.	NA*	

	National and State Resource Concerns and Quality Criteria					
Natural	Natural Description of National State Assessment Tools					
Resource	Concern	Quality	Quality	for		
Concern		Criteria	Criteria	Quality Criteria Evaluation		
	WATER					

Water Overtity	Subaurface water cozing	Subourface water is managed	NA	
Water Quantity -	Subsurface water oozing	Subsurface water is managed	INA	
Excessive	to the surface restricts	to limit periods of saturation		
Seepage	land use and	that are unfavorable to the		
	management.	present or intended land use.		
		Management complies with		
		wetland policies.		
Water Quantity -	The land becomes	Excess water amounts and/or	NA*	
Excessive	inundated restricting land	rates of flow are controlled		
Runoff,	use and management.	consistent with desired present		
Flooding, or		or intended land use goals and		
Ponding		wetland policies.		
Water Quantity -	Water saturates upper soil	Subsurface water is managed	NA*	
Excessive	layers restricting land use	to limit periods of saturation		
Subsurface	and management.	compatible with the present or		
Water	and management	intended land use and wetland		
		policies.		
Water Quantity -	Wind-blown snow deposits	Snowdrifts are reduced or	Same as National	Depth and area measurements
Drifted Snow	and accumulates around	prevented to allow ingress,		
	and over surface	egress, and conveyance of		
	structures restricting	humans and animals.		
	ingress, egress and	Tramano ana ammaio.		
	conveyance of humans			
	and animals.			
Water Quantity -	Natural or constructed	Outlets are designed, installed,	Same as National	National Engineering Field
	outlets too small to		Jame as Malional	1 1010 1010 - 1010
Inadequate		upgraded, or maintained to		Handbook, Part 650 (EFH –
Outlets	remove excess water in a	adequately convey water for		Chapters 2,3,7)
	timely manner.	present or intended uses.		Hydrologic models, e.g., HECRAS,
				TR-20, TR-55
				• EFH-2

	National and State Resource Concerns and Quality Criteria					
Natural	Natural Description of National State Assessment Tools					
Resource	Concern	Quality	Quality	for		
Concern		Criteria	Criteria	Quality Criteria Evaluation		
	WATER					

Water Quantity - Inefficient Water Use on Irrigated Land	Limited water supplies are not optimally utilized.	Land and water management is planned and coordinated to provide optimal use of natural and applied moisture.	Irrigation water is applied according to an irrigation water management plan, which considers plant consumptive use requirements, soil water holding capacity, and minimizes losses to surface and groundwater to the extent feasible. A minimum on-farm seasonal irrigation efficiency of 30 percent for flood and 70 percent sprinkler will be met regardless of	•	Farm Irrigation Rating System (FIRS) Use of Surface Irrigation Model (SRFR) to model infiltration and length of runs.
Water Quantity - Inefficient Water Use on Non- irrigated Land	Natural moisture is not optimally utilized.	Management provides optimum use of natural moisture for the present or intended land use.	the type of system. Management provides optimum use of natural moisture for the present or intended land use.	•	Soil Moisture Management Tool
Water Quantity - Reduced Capacity of Conveyances by Sediment Deposition	Sediment deposits in ditches, canals, culverts, and other water conveyances reduce the desired flow capacity.	Conveyance structures are upgraded or maintained to adequately convey water for present or intended uses.	NA*		

	National and State Resource Concerns and Quality Criteria					
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Resource	Concern	Quality	Quality	for		
Concern		Criteria	Criteria	Quality Criteria Evaluation		
	WATER					

Water Quantity - Reduced Storage of Water Bodies by Sediment Accumulation	Sediment deposits in water bodies reduce the desired volume capacity.	Water bodies and contributing source areas are treated to allow sufficient water storage for present and intended uses.	Water bodies and contributing source areas are treated to allow sufficient water storage for present and intended uses.	•	Chapter 11 - EFH Sediment Survey RUSLE 2
Water Quantity - Aquifer Overdraft	Water withdrawals exceed recharge rates.	Land and water management are coordinated to conserve aquifer water levels.	Same as National	•	If the producer is applying an irrigation water management plan, the Quality Criteria is considered met. Applicable State Laws.
Water Quantity – Insufficient Flows in Water Courses	Water flows are not consistently available in sufficient quantities to support ecological processes and land use and management.	Authorized uses and management of water are coordinated to minimize the impacts on water course flows.	NA*		
Water Quality - Harmful Levels of Pesticides in Groundwater	Residues resulting from the use of pest control chemicals degrade groundwater quality.	Pesticides are applied, stored, handled, disposed of, and managed so that groundwater uses are not adversely affected.	Pesticides are applied, stored, handled, disposed of, and managed so that groundwater uses are not adversely affected.	•	WIN_PST Pesticide Screening Spreadsheet (PSS)
Water Quality - Excessive Nutrients and Organics in Groundwater	Pollution from natural or human induced nutrients such as N, P, and organics (including animal and other wastes) degrades groundwater quality.	Nutrients and organics are stored, handled, disposed of, and applied such that groundwater uses are not adversely affected.	Same as National	•	Soil Tests Ag Waste Management Field Handbook (AWMFH)

	National and State Resource Concerns and Quality Criteria				
Natural	Natural Description of National State Assessment Tools				
Resource	Resource Concern Quality Quality for				
Concern					
	WATER				

Water Quality - Excessive Salinity in Groundwater Water Quality - Harmful Levels of Heavy Metals in Groundwater	Pollution from salts such as Ca, Mg, Na, K, HCO ₃ , CO ₃ , CI, and SO ₄ degrades groundwater quality. Natural or human induced metal pollutants present in toxic amounts degrade groundwater quality.	Salts are stored, handled, disposed of, applied, and managed such that groundwater uses are not adversely affected. Materials containing heavy metals are stored, handled, disposed of, applied, and managed such that groundwater uses are not	NA*	
Water Quality - Harmful Levels of Pathogens in Groundwater	Kinds and numbers of viruses, protozoa, and bacteria are present at a level that degrades groundwater quality.	adversely affected. Materials that harbor pathogens are stored, handled, disposed of, applied, and managed such that groundwater uses are not adversely affected.	NA*	
Water Quality - Harmful Levels of Petroleum in Groundwater	Fuel, oil, gasoline and other hydrocarbons present in toxic amounts degrade groundwater quality.	Petroleum products are used, stored, handled, disposed of, and managed such that groundwater uses are not adversely affected.	NA*	
Water Quality - Harmful Levels of Pesticides in Surface Water	Pest control chemicals present in toxic amounts degrade surface water quality.	Pesticides are applied, stored, handled, disposed of, and managed such that surface water uses are not adversely affected.	Same as National	WIN-PSTPSS
Water Quality - Excessive Nutrients and Organics in Surface Water	Pollution from natural or human induced nutrients such as N, P, and organics (Including animal and other wastes) degrades surface water quality.	Nutrients and organics are stored, handled, disposed of, and managed such that surface water uses are not adversely affected.	Same as National	 AWMFH Nitrogen/Phosphorus Application Matrix

	National and State Resource Concerns and Quality Criteria				
Natural	Natural Description of National State Assessment Tools				
Resource	Resource Concern Quality Quality for				
Concern	Concern Criteria Criteria Quality Criteria Evaluation				
	WATER				

Water Quality - Excessive Suspended Sediment and Turbidity in Surface Water	Pollution from mineral or organic particles degrades surface water quality.	Movement of mineral and organic particles is managed such that surface water uses are not adversely affected.	NA*	RUSLE 2 Chapter 11 – EFH
Water Quality - Excessive Salinity in Surface Water	Pollution from salts such as Ca, Mg, Na, K, HCO ₃ , HCO ₃ , CO ₃ , Cl, and SO ₄ degrades surface water quality.	Salts are stored, handled, disposed of, applied, and managed such that surface water uses are not adversely affected.	NA*	
Water Quality - Harmful Levels of Heavy Metals in Surface Water	Natural or human induced metal pollutants are present in toxic amounts that degrade surface water quality.	Materials containing heavy metals are stored, handled, disposed of, applied, and managed such that surface water uses are not adversely affected.	NA*	
Water Quality - Harmful Temperatures of Surface Water	Undesired thermal conditions degrade surface water quality.	Use and management of land and water are coordinated to minimize impacts on surface water temperatures.	NA*	
Water Quality - Harmful Levels of Pathogens in Surface Water	Kinds and numbers of viruses, protozoa, and bacteria are present at a level that degrades surface water quality.	Materials that harbor pathogens are stored, handled, disposed of, applied, and managed such that surface water uses are not adversely affected.	NA*	
Water Quality - Harmful Levels of Petroleum in Surface Water	Fuel, oil, gasoline and other hydrocarbons present in toxic amounts degrade surface water quality.	Petroleum products are used, stored, handled, and disposed of such that groundwater uses are not adversely affected.	NA*	

	National and State Resource Concerns and Quality Criteria				
Natural	Natural Description of National State Assessment Tools				
Resource Concern Quality Quality for					
Concern		Criteria	Criteria	Quality Criteria Evaluation	
	AIR				

A: 0 !!!	Deuties lete meetten le	[]	NIA+	
Air Quality -	Particulate matter less	Land use and management	NA*	
Particulate	than 10 micrometers in	operations comply with PM 10		
matter less than	diameter are suspended in	requirements of the State or		
10 micrometers	the air causing potential	Federal Implementation Plan		
in diameter (PM	health hazards to humans	and all applicable Federal,		
10)	and animals.	Tribal, State, and Local		
		regulations		
Air Quality -	Particulate matter less	Land use and management	NA*	
Particulate	than 2.5 micrometers in	operations comply with PM 2.5		
matter less than	diameter are suspended in	requirements of the State or		
2.5 micrometers	the air causing potential	Federal Implementation Plan		
in diameter (PM	health hazards to humans	and all applicable Federal,		
2.5)	and animals.	Tribal, State, and Local		
2.3)	and animais.	regulations.		
Air Ouglitus	Lligh consentrations of		NIA*	
Air Quality -	High concentrations of	Land use and management	NA*	
Excessive	ozone (O ₃) are adversely	operations comply with		
Ozone	affecting human health,	requirements of the State or		
	reducing plant yields, and	Federal Implementation Plan		
	leading to the creation of	and all applicable Federal,		
	smog.	Tribal, State, and Local		
		regulations.		
Air Quality -	Increased CO ₂	Land use and management	NA*	
Excessive	concentrations are	operations comply with		
Greenhouse	adversely affecting	requirements of the State or		
Gas - CO ₂	ecosystem processes.	Federal Implementation Plan		
(carbon dioxide)	, ,	and all applicable Federal,		
(**************************************		Tribal, State, and Local		
		regulations.		
Air Quality -	Increased N ₂ O	Land use and management	NA*	
Excessive	concentrations are	operations comply with		
Greenhouse	adversely affecting	requirements of the State or		
Gas - N ₂ O		•		
<u> </u>	ecosystem processes.	Federal Implementation Plan		
(nitrous oxide)		and all applicable Federal,		
		Tribal, State, and Local		
		regulations.		

	National and State Resource Concerns and Quality Criteria				
Natural	Natural Description of National State Assessment Tools				
Resource	Resource Concern Quality Quality for				
Concern					
	AIR				

Air Quality - Excessive Greenhouse Gas – CH4 (methane)	Increased CH4 concentrations are adversely affecting ecosystem processes	Land use and management operations comply with requirements of the State or Federal Implementation Plan and all applicable Federal, Tribal, State, and Local regulations.	NA*	
Air Quality - Ammonia (NH3)	Animal waste and inorganic commercial fertilizers emit ammonia that contributes to odor, is a PM2.5 precursor, and contributes to acid rain.	Land use and management operations comply with requirements of all applicable Federal, Tribal, State, and Local regulations.	NA*	
Air Quality - Chemical Drift	Materials applied for pest control drift downwind and contaminate/injure nontargeted fields, crops, soils, water, animals and humans.	Land use and management operations comply with all applicable Federal, Tribal, State, and Local regulations, and applicable label directions.	Same as National	Pest Management Standard
Air Quality - Objectionable Odors	Land use and management operations produce offensive smells.	Odor-producing facilities and activities are planned and sited to mitigate potential nuisance impacts and meets all applicable Tribal, State, and Local regulations.	NA*	
Air Quality - Reduced Visibility	Sight distance is impaired due to airborne particles causing unsafe conditions and impeded viewing of natural vistas especially in Class I viewing areas (primarily national parks and monuments).	Land use and management operations comply with all applicable Federal, Tribal, State, and Local regulations including state and local smoke and/or burn management plans.	Same as National	Visual assessment Regional air partnership recommendations and/or state guidance for smoke management

	National and State Resource Concerns and Quality Criteria				
Natural	Natural Description of National State Assessment Tools				
Resource Concern Quality Quality for					
Concern		Criteria	Criteria	Quality Criteria Evaluation	
	AIR				

Air Quality - Undesirable Air Movement	Wind velocities (too little or too much) reduce animal or plant productivity, impact human comfort and increase energy consumption.	Devices and practices are sited and planned to mitigate excess or deficient air movement.	NA*	
Air Quality - Adverse Air Temperature	Air temperatures (too cold or too hot) reduce animal or plant productivity, impact human comfort and increase energy consumption.	Devices and practices are planned and sited to mitigate temperature extremes.	NA*	

	National and State Resource Concerns and Quality Criteria				
Natural	Natural Description of National State Assessment Tools				
Resource Concern Quality Quality for					
Concern					
	PLANTS				

Plants not	Plants are not	Selected plants are adapted to the soil	NA*	
adapted or	adapted and/or	and climatic conditions or the site is		
suited	suited to site	modified to make it suitable for the		
	conditions or client	desired plants. Plants are sustainable, do		
	objectives.	not negatively impact other resources,		
		and meet client objectives. For specific		
		land uses, additional criteria apply:		
		Cropland: A healthy stand with vigorous		
		growth. Yields 75 percent of client		
		expectations.		
		Rangeland: Plants on or planned for the		
		site are listed in applicable Ecological Site		
		Descriptions (ESD).		
		Pastureland: Plants on or planned for		
		the site have a site adaptation score		
		greater than three using Pasture		
		Condition Scoring (PCS)and are listed in		
		applicable Forage Suitability Groups		
		(FSG)reports.		
		Hayland: Plants on or planned for the		
		site are listed in applicable Forage		
		Suitability Groups (FSG) reports.		
		Forestland/Agroforest: Plants on or		
		planned for the site are listed in		
		Ecological Site Descriptions (ESD).		

	National and State Resource Concerns and Quality Criteria					
Natural	Natural Description of National State Assessment Tools					
Resource	Concern	Quality	Quality	for		
Concern	Concern Criteria Criteria Quality Criteria Evaluation					
	PLANTS					

Concern		Criteria	Criteria Quality	Criteria Evaluation
		PLANTS		
	Plants do not produce the yields, quality, and soil cover to meet client objectives.	Selected plants on or planned for the site are sufficiently productive to meet or exceed client needs. For specific land uses, additional criteria apply: Cropland: A healthy stand with vigorous growth produces at least 75 percent of site potential. Rangeland: The plant community has a similarity index of at least 60 percent or an upward trend for similarity indices less than 60 percent. Pastureland: Forage yields are at least 75 percent of high management estimates cited in FSG reports. Hayland: Forage yields at least 75 percent of high mgt. estimates cited in Forage Suitability Groups (FSG) reports. Forestland/Agroforest: Forests consist of healthy stands with vigorous growth having a stand density within 25 percent of optimum stocking on a stems/acre basis. Plants chosen for agroforest applications are consistent with Conservation Tree and Shrub Groups (CTSG) listings and height performance.	Cropland – A healthy, vigorous stand that meets the producer's yield goals given the yield potential for the soil map unit. Rangeland – A plant and anima community where ecological processes are functioning within the normal range of variability and that 1. has an apparent rangeland or planned trend rating of "Not Apparent" or "Toward". and 2. Prescribed Grazing is being implemented. Pastureland – A healthy, vigorous stand of desired specie(s) with average annual production falling within the range cited in the Forage Suitability Group Description Hayland - A healthy, vigorous stand of desired specie(s) with average annual production falling within the range cited in the Forage Suitability Group Description.	National Range and Pasture Handbook Ecological Site Descriptions Rangeland Similarity Index Worksheet Forage Suitability Groups (FSG) Soil Survey reports Soil Condition Rating Soil Testing Crop/soil yield comparison in the vicinity Pasture Condition Scoring

	Nation	al and State Resource Concerns	and Quality Criteria	
Natural Resource Concern	Description of Concern	National Quality Criteria	State Quality Criteria	Assessment Tools for Quality Criteria Evaluation
		PLANTS		•
			Forestland – Follevels are within a "D+X" spacing guequivalent for the and stand composition within the stand a distributed. Agroforestry - Pagroforest applic consistent with Carree and Shrub	25 percent of the uide or e particular site osition; trees are uniformly Plants chosen for ations are conservation Groups (CTSG)

	National and State Resource Concerns and Quality Criteria					
Natural	Natural Description of National State Assessment Tools					
Resource	Concern	Quality	Quality	for		
Concern	Concern Criteria Criteria Quality Criteria Evaluation					
	PLANTS					

Plant Condition - Threatened or Endangered Plant Species	Plant populations and /or habitat quantity and quality have reached a level that one or more plant species are in danger of or threatened with extinction.	Threatened and endangered plant species and/or habitats they occupy are managed to avoid actions that would reduce their current population, health, or sustainability.	Same as National	 General Manual, 190, Part 410 US Fish and Wildlife Service county endangered species lists Federal and state endangered species rules and regulations US Fish and Wildlife Service Recovery Plans
Plant Condition - Noxious and Invasive Plants	The site has noxious or invasive plants present.	The site is managed to control noxious and invasive plants and to minimize their spread.	Same as National	State and local noxious weed list
Plant Condition - Forage Quality and Palatability	Plants do not have adequate nutritive value or palatability for the intended use	Forage plants are managed to produce the desired nutritive value and palatability for the intended use.	Same as National	 National Range and Pasture Handbook (NRPH) NIRS fecal analysis and Nutritional Balance Program (NUTBAL) NRCS Technical Notes, Guides and Practice Standards Plant tissue analysis
Plant Condition – Wildfire Hazard	The kinds and amounts of fuel loadings (plant biomass) pose risks to human safety, structures, and resources should wildfire occur.	Fuel loadings are reduced and/or isolated to meet client needs in minimizing the risk and incidence of wildfire.	NA*	

	National and State Resource Concerns and Quality Criteria					
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Resource	Concern	Quality	Quality	for		
Concern	Concern Criteria Criteria Quality Criteria Evaluation					
	ANIMALS					

Fish and Wildlife - Inadequate Food	Quantity and quality of food is unavailable to meet the life history requirements of the species or guild of species of concern.	Food availability meets the life history requirements of the species or guild of species of concern.	Wildlife Habitat Evaluation Guide index is 0.5 or higher.	•	State Adapted Wildlife Habitat Evaluation Guide (WHEG)
Fish and Wildlife - Inadequate Cover/Shelter	Cover/shelter for the species of concern is unavailable or inadequate. For aquatic species, this includes lack of hiding, thermal, and/or refuge cover.	The ecosystem or habit types support the necessary plant species in the kinds, amounts, and physical structure; and the connectivity of fish and wildlife cover is adequate to support, over time, the species of concern.	Wildlife Habitat Evaluation Guide index is 0.5 or higher.	•	State Adapted WHEG
Fish and Wildlife - Inadequate Water	The quantity and quality of water is unacceptable for the species of concern.	The quantity and quality of water meets the life history requirements of the species of concern.	Wildlife Habitat Evaluation Guide index is 0.5 or higher.	•	State Adapted WHEG
Fish and Wildlife - Inadequate Space	Lack of area and fragmentation of areas disrupt life history requirements of the species of concern.	Adequate area and connectivity of areas meet life history requirements of the species of concern. (Examples: staging areas for rest and feeding, lekking areas for breeding, migratory movement corridors).	Wildlife Habitat Evaluation Guide index is 0.5 or higher.	•	State Adapted WHEG
Fish and Wildlife -Plant Community Fragmentation	Natural plant communities have insufficient structure, extent, and connectivity to provide ecological functions and/or achieve management objectives.	Fish and wildlife habitat functions of connected plant communities are maintained sufficiently to support the species or guild of species of concern.	Wildlife Habitat Evaluation Guide index is 0.5 or higher.	•	WHEG

	National and State Resource Concerns and Quality Criteria					
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Concern	Concern Criteria Criteria Quality Criteria Evaluation					
	ANIMALS					

Fish and Wildlife - Imbalance Among and Within Populations	Populations are not in proportion to available quantities and qualities of food (plants, predator/prey), cover/shelter, water, and space and other life history requirements.	Land and water use and management are consistent with direct population management activities conducted by fish and wildlife agencies.	NA*	
Fish and Wildlife - Threatened and Endangered Species	Fish and wildlife populations and/or habitat quantity and quality have reached a level that one or more species are in danger of or threatened with extinction.	Threatened and endangered fish and wildlife species and/or habitats they occupy are managed to avoid actions that would reduce their current population, health, or sustainability.	Same as National	 General Manual, 190, Part 410 US Fish and Wildlife Service county endangered species lists Fish and wildlife recovery plans Federal and state endangered species rules and regulations
Domestic Animals – Inadequate Quantities and Quality of Feed and Forage	Total feed and forage is insufficient to meet the nutritional and production needs of the kinds and classes of livestock.	Feed and forage including supplemental nutritional requirements are provided to meet production goals for the kinds and classes of livestock. Native grazers are factored into the total feed and forage balance computations.	Domestic animals are provided adequate food of sufficient quality and quantity with supplements to meet their nutritional requirements.	 National Range and Pasture Handbook (NRPH) NIRS fecal analysis and Nutritional Balance Program (NUTBAL) Forage quality laboratory analysis Forage Balance Worksheet NRCS Technical Notes, Guides and Practice Standards
Domestic Animals – Inadequate Shelter	Livestock are not protected sufficiently to meet the production goals for the kinds and classes of livestock.	Artificial and/or natural shelter is provided to meet production goals for the kinds and classes of livestock.	Domestic animals are provided adequate shelter and cover.	NRPH Appropriate NRCS Guides and Tools Client interview

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Concern		Criteria	Criteria	Quality Criteria Evaluation		
	ANIMALS					

Domestic Animals – Inadequate Stock Water	The quantity, quality and distribution of drinking water is insufficient to meet the production goals for the kinds and classes of livestock.	Sufficient water of acceptable quality is provided and adequately distributed to meet production goals for the kinds and classes of livestock. To reduce potential for water contamination, watering facilities are constructed or modified to minimize mortality to indigenous wildlife.	Domestic animals are provided sufficient quantity and quality of water to meet their daily needs.	•	National Range and Pasture Handbook (NRPH) Appropriate NRCS Guides, Worksheets, Technical Notes and Tools University Fact Sheets and Reports
Domestic Animals - Stress and Mortality	Animals exhibit illness or death from disease, parasites, insects, poisonous plants, or other factors.	Land and water use and management are consistent with activities conducted to alleviate stress and mortality factors.	NA*		

^{*} Indicates that South Dakota has not set State Quality Criteria at this time because we have not identified an assessment tool. If the resource concern is identified it needs to be addressed during the planning process.